

## **REMARKS**

Claims 1- 6 and 8-10 are pending. Amendments have been made to the specification and claims 1-6 and 8-10 with the support of at least Figures 1-3 of the specification. Claims 7 and 11-12 have been cancelled. No new matter has been added.

### **Objections to the Specification**

The Examiner objected to the specification due to the recitation of "time area" and "frequency area" as opposed to "time domain" and "frequency domain."

To overcome this objection, Applicants provide herewith (please see Appendix A) a substitute specification including the needed corrections. Appendix B is a marked-up copy of the substitute specification.

### **Claim Objections**

Claims 1-12 are objected to because of the recitation of "time area" and "frequency area" as opposed to "time domain" and "frequency domain." Also, the Examiner requested that "base band" be replaced with "baseband" and that lines 9-11 of claim 1 be rewritten to improve the claim language.

Applicants have made appropriate corrections to the claims to overcome the Examiner's objections.

### **Claim Rejections Under 35 U.S.C. § 112**

The Examiner asserted that claims 1-12 are indefinite under 35 U.S.C. § 112 for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. The Examiner stated that the limitations "a first phase shifter is arranged on a former stage side" and "arranged at a latter stage" of claim 1, lines 9-12, are unclear.

The Examiner also rejected claims 1-12 under 35 U.S.C. § 112, second paragraph, as being incomplete for omitting essential elements, namely a combiner (first adder), a first control circuit, a second control circuit, and a second combiner (second adder). The Examiner further suggested alternative language for claims 3 and 5.

Independent claim 1 is amended herein to address the alleged lack of clarity of claim 1 and to include the omitted elements. This amendment is consistent with the Examiner's suggestions on pages 3-4 of the Office Action. Claims 7, 11, and 12 have been cancelled herein to avoid redundancy with amended claim 1. The Examiner suggested that claims 2 and 6 should also be cancelled due to avoid redundancy. Applicants respectfully disagree. Applicants point out that in claim 2 the baseband signals are synthesized in diversity, and in claim 6 the high frequency signals are synthesized in diversity. Accordingly, these claims further limit claim 1 and need not be cancelled.

Independent claims 3 and 5 are amended herein consistent with the Examiner's suggestions on page 4 of the Office Action.

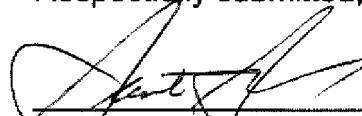
### **Allowable Subject Matter**

Applicants gratefully acknowledge the Examiner's statement that claims 1, 3-5, 8, 9 and 10 would be allowable if rewritten or amended to overcome the rejections under 35 U.S.C. § 112, second paragraph, set forth in the Office Action dated March 19, 2007. Applicants have amended the claims as discussed above to overcome these rejections.

### **Summary**

Applicants respectfully submit that pending claims 1-6 and 8-10 are in condition for allowance. If for any reason the Examiner is unable to allow the application in the next Office Action and believes that a telephone interview would be helpful to resolve any remaining issues, he is respectfully requested to contact the undersigned attorney or agent.

Respectfully submitted,



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